



600 Series Integrated Circuit POWER SUPPLIES

FEATURES

- Output to 10 amps
- Excellent Transient Response
- Low Line and Load Regulation
- Adjustable Voltage
- Current Limit Short Circuit Protection
- High Speed Crow Bar Overvoltage Protection
- Convection Cooled
- LOW PRICE!! From \$125

DESCRIPTION

The RO 600 Series power supplies are designed specifically for digital integrated circuits. They feature excellent transient response, regulation, and ripple. A special high speed regulator is used to achieve the superior transient response. These power supplies are protected by their current limiting features and are short-circuit proof. Protection can be provided to the load by an optional built-in crow bar circuit that is extremely fast acting, with excellent stability and design to protect the IC loads from all types of faults.



From \$125

SPECIFICATIONS

DC output	4.5 to 5.5 volts adj (3.6 volt models available)
	5 amps Model 605
	10 amps Model 610
Input	105 to 130 VAC, 45 to 440 Hz
Regulation	$\pm 0.1\%$ for $\pm 10\%$ change in input voltage less than 0.25% for zero to full load change
Ripple and Noise . . .	less than 1 mvpp
Transient response .	125 mv for 30 μ sec for change of half-load to full-load current or vice versa. 250 mv for 30 μ sec for change of no-load to full-load current or vice versa.
Power supply protection	current limited at 120% of rated load: short circuit proof
Load protection	Optional fast response crow bar, will not exceed adjustable trip point voltage for transients with rise times slower than 0.2 volts/ μ sec Will not exceed static trip point volts for more than 200 nanoseconds for step function overvoltage.

Cooling	By convection, no forced air required
Operating Temperature	-25 to +55°C
Remote Sensing	Sensing terminals provided to enable specific regulation directly at load.
Stability	Output voltage changes less than 0.05% over a 24 hour period after warm up.
Temperature coefficient	Output voltage changes less than 0.05% / °C over -25 to +55°C ambient
Output impedance	See regulation and transient response specifications
Controls	Built in potentiometer adjusts output voltage from 4.5 to 5.5 volts with resolution of 15 mv. Built in potentiometer adjusts crow bar static trip point with resolution of 15 mv

Specification Drawings on Reverse Side

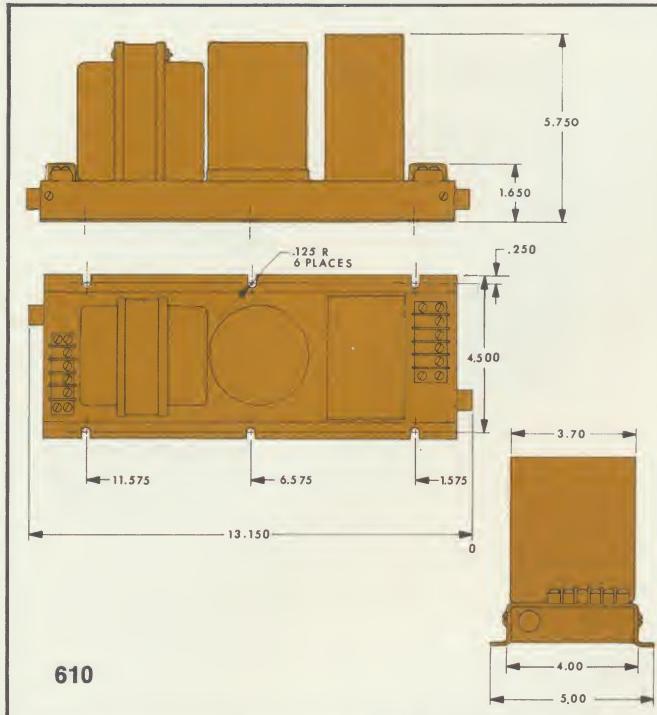
ORDERING INFORMATION

	605, M605	610, M610	Crow Bar
Price	\$125.00	\$139.00	\$18.00 additional
Shipping Weight	7 lbs.	12 lbs.	
Delivery	stock to 2 weeks		
Terms	Net 30 days		

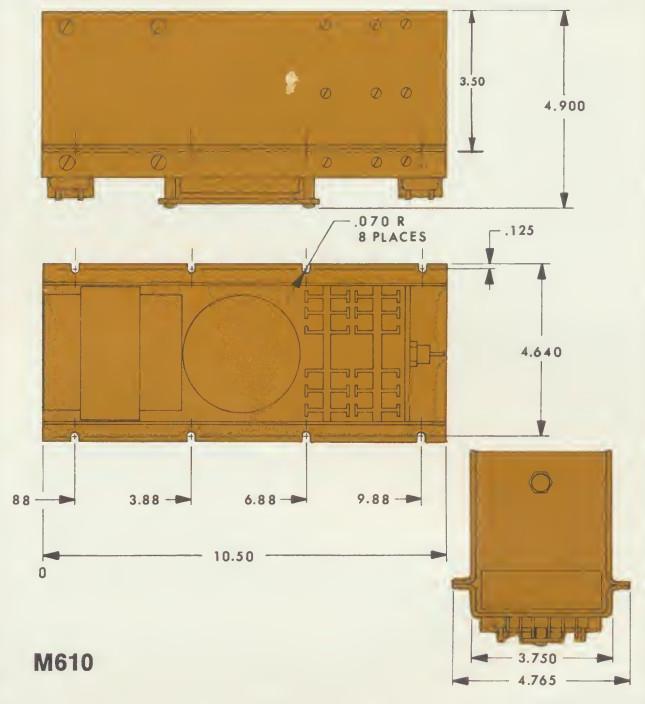
RO ASSOCIATES, Incorporated / 917 Terminal Way / San Carlos, California 94070 / (415) 591-9443



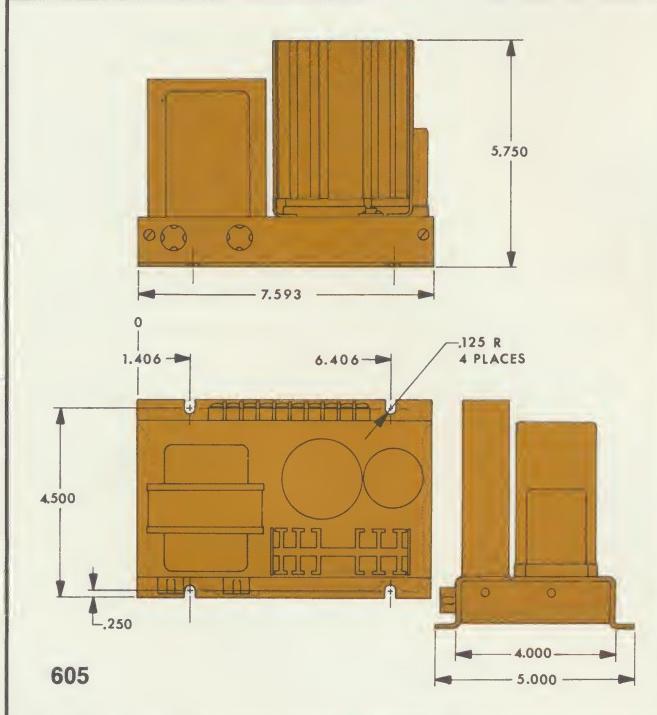
600 Series Integrated Circuit POWER SUPPLIES



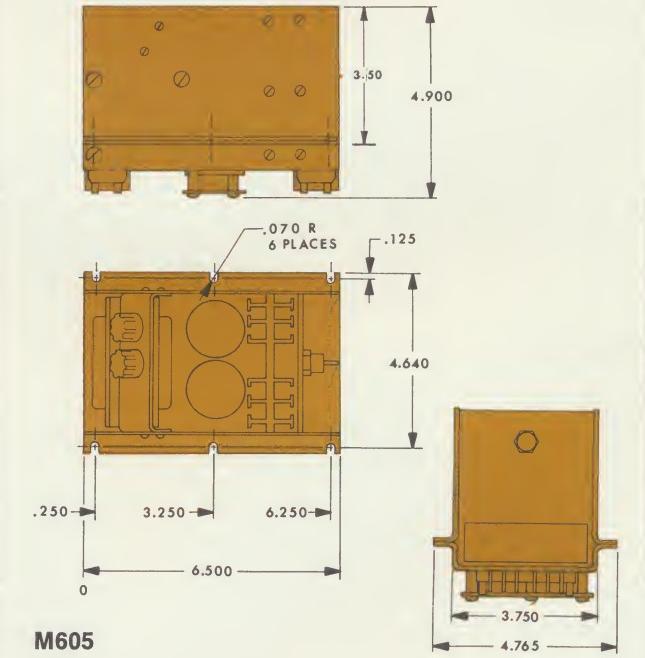
610



M610



605



M605

ORDER FROM FACTORY OR LOCAL RO REPRESENTATIVE

Albuquerque, New Mexico, (505) 265-1020; Philadelphia, Pennsylvania (215) 822-2553; Chicago, Illinois (312) 775-5300; Cumberland, Rhode Island, (401) 333-5054; Dallas, Texas, (214) 363-1526; Englewood, Colorado, (303) 781-0912; Fairborn, Ohio, (513) 878-2631; Houston, Texas, (713) 649-5756; Livonia, Michigan, (313) 476-5758; Lodi, New Jersey, (201) 845-6668; Minneapolis,

Minnesota, (612) 922-7011; Orlando, Florida, (305) 855-0274; Scottsdale, Arizona, (602) 947-4336; Seattle, Washington, (206) 622-0622; Silver Spring, Maryland, (301) 587-5115; St. Louis, Missouri, (314) 428-5313; Van Nuys, California, (213) 873-6862; Export, New York, (212) 581-4447



RO ASSOCIATES...Power Supplies



NEW—for Integrated Circuit Systems

FEATURES	FROM \$125.00		OVERVOLTAGE PROTECTOR
	POWER SUPPLIES		
1. Short-circuit proof; current limiting	Model 605	Model 610	Model OV100
2. Overvoltage protection	DC Output: Voltage Current	5 V (adj. ± 0.5 V) 5 A	5 V (adj. ± 0.5 V) 10 A
3. Excellent Regulation & Transient Response	Input	105–130 vac 45 to 440 Hz	105–130 vac 45 to 440 Hz
4. Convection Cooling	Regulation with $\pm 10\%$ line voltage zero to full load	$< 0.1\%$ $< 0.25\%$ 10 μ sec	$< 0.1\%$ $< 0.25\%$ 10 μ sec
5. High Quality—All Silicon	Transient Response	Short-circuit protection	Adjustable trip point . . . 4-10v
6. Low Price	Ripple	Ripple 1 mv p-p	Fast response time . . . 200 nsec.
	Price basic unit	\$125.00	High current capability . . . 10 A continuous
	Built-in overvoltage protection	\$18.00 addtl.	Low Price \$39.50

Analog and Digital System Supplies

	500	504	505	506	507	508
Function						
DC Output: Voltage	3–32 vdc adj.	3–32 vdc adj. (each channel)	3–6 vdc adj.	± 12 to ± 24 vdc adj.	3–6 vdc adj.	11–15 vdc adj.
Current	50 ma	1 amp (each channel)	8 amps	150 ma min.	5 amps	4 amps
Input	32 v rms $\pm 10\%$ 0–1 KHz	105–125 vac 45–440 cps	105–125 vac 45–440 cps	105–130 vac 45–440 cps	105–125 vac 45–440 cps	105–125 vac 45–440 cps
Regulation: With $\pm 10\%$ Input Voltage	$< 0.02\%$	0.01%	0.02%	0.03%	0.015%	0.02%
Zero to Full-Load	$< 0.02\%$	0.015%	0.02%	0.15%	0.015%	0.02%
Protection	Current limit @ 55 ma	Current limit @ 1.4 amp	Current limit @ 8.5 amp	Current limit @ 250 ma	Current limit @ 5.5 amp	Current limit @ 4.5 amps
Ripple and noise	$< 0.005\%$	< 1 mv p-p	< 1 mv p-p	< 0.8 mv p-p	< 1 mv p-p	< 1 mv p-p
Price (small quantity)	\$55.00	\$230.00	\$199.00	\$95.00	\$190.00	\$199.00

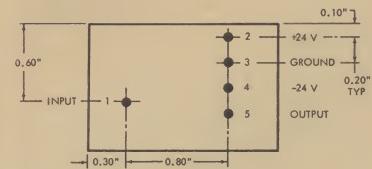
Quantity discounts are available on all RO Modules shown. See your local RO representative or write direct for complete information or application assistance on these products or allied analog components. Custom designs can be developed to fit your special requirement.

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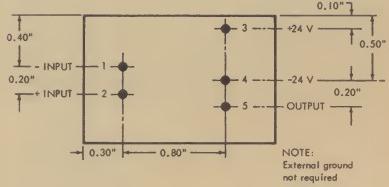
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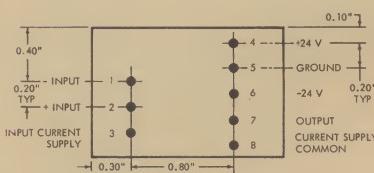
PIN CONNECTIONS



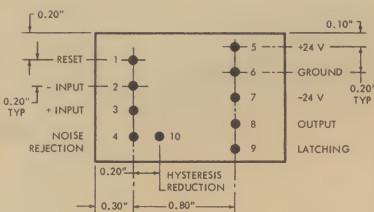
C01



C05

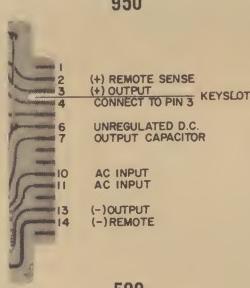
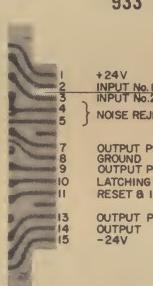
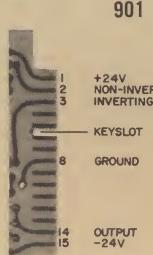
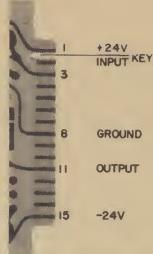


C33



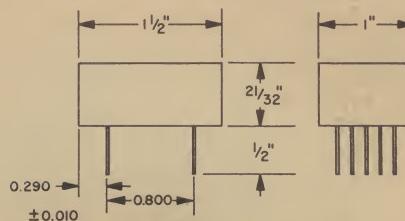
C50

Note: All pins #22 gauge wire (.035" diameter)

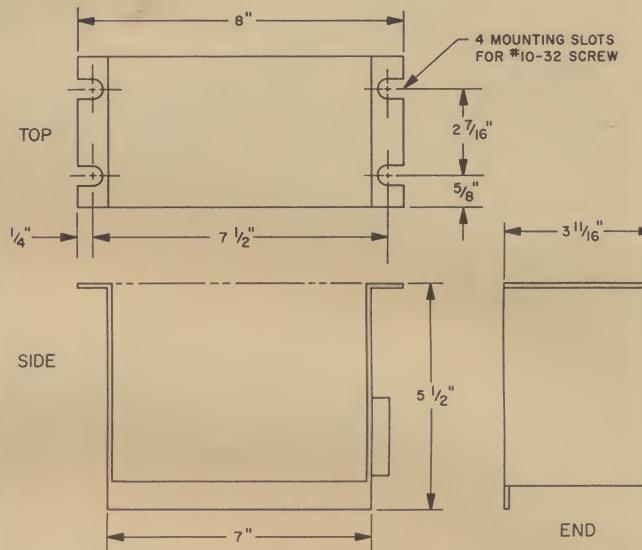


500

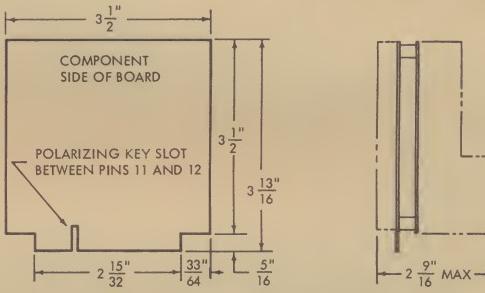
MECHANICAL DIMENSIONS



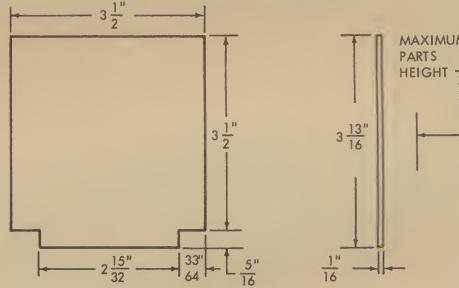
Encapsulated functional analog modules



Model 504, 505, 507 and 508 power supplies



Model 506 power supply



Open P-C Board functional analog modules